

10/694, 843

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10/694,843

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

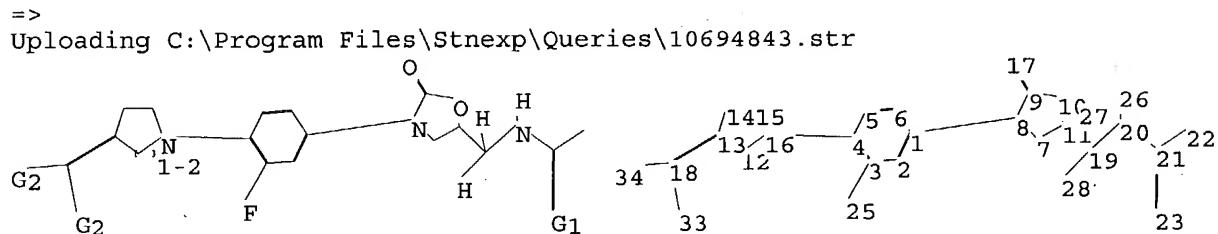
STRUCTURE FILE UPDATES: 8 DEC 2004 HIGHEST RN 795251-52-4
DICTIONARY FILE UPDATES: 8 DEC 2004 HIGHEST RN 795251-52-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>



chain nodes :
17 18 19 20 21 22 23 25 26 27 28 33 34
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
chain bonds :
1-8 3-25 4-16 9-17 11-19 13-18 18-33 18-34 19-20 19-27 19-28 20-21
20-26 21-22 21-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-11 8-9 9-10 10-11 12-13 12-16 13-14
14-15 15-16
exact/norm bonds :
1-8 4-16 7-8 8-9 9-17 12-16 15-16 18-33 18-34 19-20 20-21 21-23
exact bonds :
3-25 7-11 9-10 10-11 11-19 12-13 13-14 13-18 14-15 19-27 19-28 20-26
21-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 : 7 : 12 :

G1:O,S

G2:O,OH,CN,N,X,Hy,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS 18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS
33:CLASS 34:CLASS

10/694,843

L1 STRUCTURE UPLOADED

=> s 11
SAMPLE SEARCH INITIATED 18:24:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 7 TO ITERATE

100.0% PROCESSED 7 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

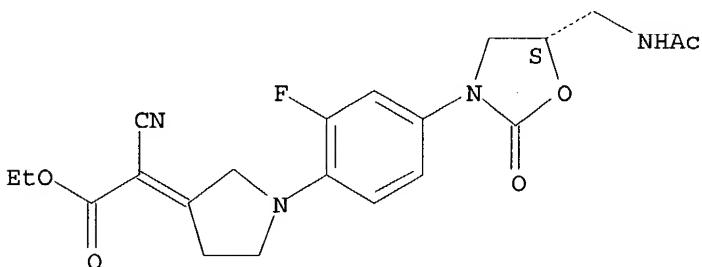
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 7 TO 298
PROJECTED ANSWERS: 4 TO 200

L2 4 SEA SSS SAM L1

=> d scan

L2 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Acetic acid, [1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-3-pyrrolidinylidene]cyano-, ethyl ester (9CI)
MF C21 H23 F N4 O5
CI COM

Absolute stereochemistry.
Double bond geometry unknown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 11 ful
FULL SEARCH INITIATED 18:24:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 159 TO ITERATE

100.0% PROCESSED 159 ITERATIONS 61 ANSWERS
SEARCH TIME: 00.00.01

L3 61 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
|------------------|---------------|

10/694,843

FULL ESTIMATED COST 155.84 156.05

FILE 'CAPLUS' ENTERED AT 18:24:31 ON 09 DEC 2004
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FILE COVERS 1907 - 9 Dec 2004 VOL 141 ISS 24
FILE LAST UPDATED: 8 Dec 2004 (20041208/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13
L4 4 L3

=> d 14 ibib hitstr abs 1-4

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:372882 CAPLUS
DOCUMENT NUMBER: 140:391269
TITLE: Preparation of methyldene oxazolidinone compounds as antimicrobial agents and preparation method thereof
INVENTOR(S): Koh, Hun Yeong; Cho, Yong Seo; Pae, Ae Nim; Cha, Joo Hwan; Kim, Hye Yeon; Lee, Jae Seok; Kim, Hak Soo; Kim, Sanghee
PATENT ASSIGNEE(S): Korea Institute of Science and Technology, S. Korea
SOURCE: U.S. Pat. Appl. Publ., 14 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|------------|
| US 2004087633 | A1 | 20040506 | US 2003-694843 | 20031029 |
| PRIORITY APPLN. INFO.: | | | KR 2002-66268 | A 20021029 |

OTHER SOURCE(S): CASREACT 140:391269; MARPAT 140:391269

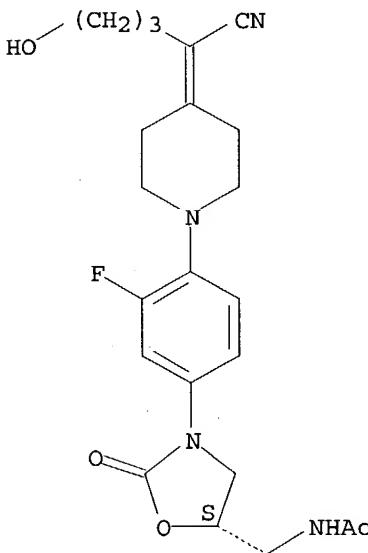
IT 685570-69-8P, N-[(5S)-3-[3-Fluoro-4-[4-(1-cyano-4-hydroxybutylidene)piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of 3-[4-(3-methylidene)piperidin-1-yl or 4-methylidene)pyrrolidin-1-yl]phenyl]-2-oxazolidinone derivs. as antimicrobial agents)

RN 685570-69-8 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(1-cyano-4-hydroxybutylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 596136-10-6P, N-[(5S)-3-[3-Fluoro-4-[3-(dicyanomethylidene)pyrrolidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide 596136-11-7P 596136-13-9P
 648919-57-7P, N-[(5S)-3-[3-Fluoro-4-[4-(1-cyanoethylidene)piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide 648919-89-5P, N-[(5S)-3-[3-Fluoro-4-[4-(dicyanomethylidene)piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide 648919-97-5P, N-[(5S)-3-[3-Fluoro-4-[4-(1-ethoxycarbonyl-1-cyanomethylidene)piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide 685570-68-7P, N-[(5S)-3-[3-Fluoro-4-[4-[1-cyano-2-(ethoxycarbonyl)ethylidene]piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide 685570-70-1P, N-[(5S)-3-[3-Fluoro-4-[4-[1-cyano-4-(methanesulfonyloxy)butylidene]piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide 685570-73-4P,
 N-[(5S)-3-[3-Fluoro-4-[4-(1-cyano-4-aminobutylidene)piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]thioacetamide 685570-79-0P,
 N-[(5S)-3-[3-Fluoro-4-[4-[1-(ethoxycarbonyl)ethylidene]piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide 685570-82-5P,
 N-[(5S)-3-[3-Fluoro-4-[4-[1-chloro-1-(ethoxycarbonyl)methylidene]piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide 685570-96-1P,
 N-[(5S)-3-[3-Fluoro-4-[3-(dicyanomethylidene)pyrrolidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide hydrochloride 685570-97-2P
 685570-99-4P 685571-00-0P, N-[(5S)-3-[3-Fluoro-4-[4-[1-cyano-2-(ethoxycarbonyl)ethylidene]piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide hydrochloride 685571-01-1P,
 N-[(5S)-3-[3-Fluoro-4-[4-(1-ethoxycarbonyl-1-cyanomethylidene)piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide hydrochloride
 685571-07-7P, N-[(5S)-3-[3-Fluoro-4-[4-[1-(ethoxycarbonyl)ethylidene]piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide hydrochloride 685571-09-9P,
 N-[(5S)-3-[3-Fluoro-4-[4-[1-chloro-1-(ethoxycarbonyl)methylidene]piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide hydrochloride

685571-10-2P, N-[(5S)-3-[3-Fluoro-4-[4-(1-cyanoethylidene)piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methylacetamide hydrochloride

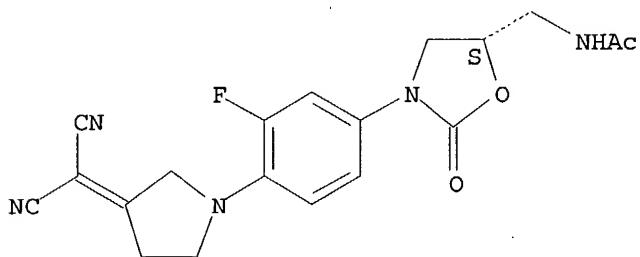
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 3-[4-(3-methylidenepiperidin-1-yl or 4-methylidenepyrrrolidin-1-yl)phenyl]-2-oxazolidinone derivs. as antimicrobial agents)

RN 596136-10-6 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[3-(dicyanomethylene)-1-pyrrolidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

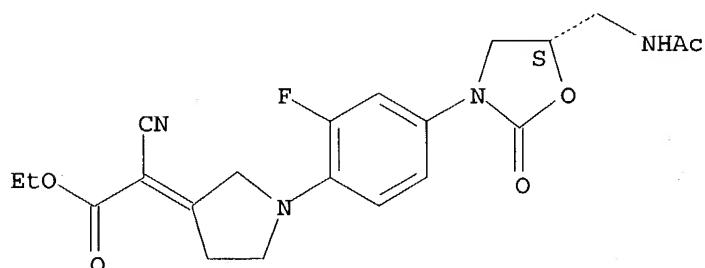


RN 596136-11-7 CAPLUS

CN Acetic acid, [1-[4-[(5S)-5-[(acetylaminomethyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-3-pyrrolidinylidene]cyano-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

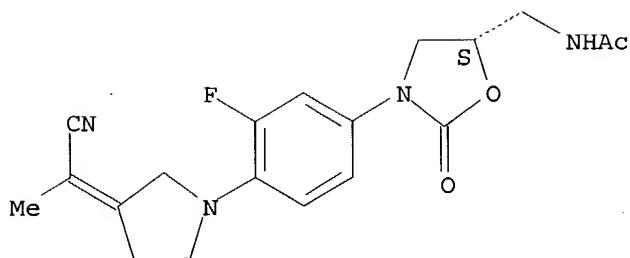


RN 596136-13-9 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[3-(1-cyanoethylidene)-1-pyrrolidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl- (9CI) (CA INDEX NAME)

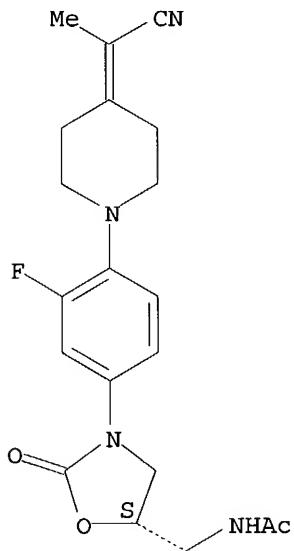
Absolute stereochemistry.

Double bond geometry unknown.



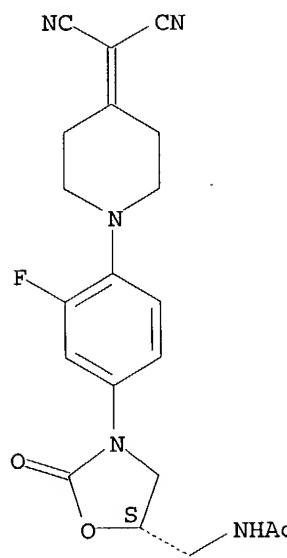
RN 648919-57-7 CAPLUS
CN Acetamide, N-[(5S)-3-[4-[4-(1-cyanoethylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



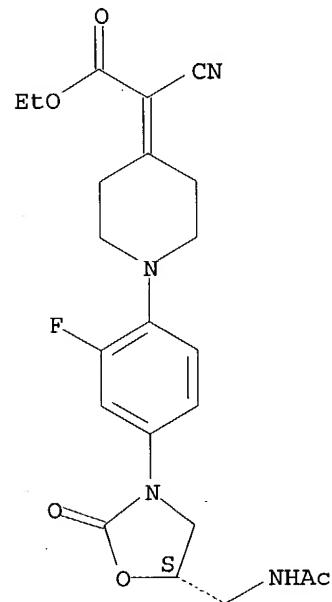
RN 648919-89-5 CAPLUS
CN Acetamide, N-[(5S)-3-[4-[4-(dicyanomethylene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



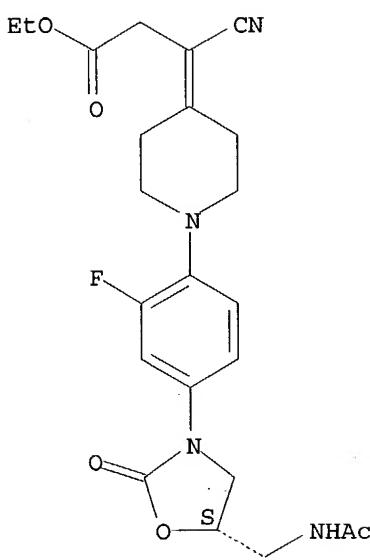
RN 648919-97-5 CAPLUS
CN Acetic acid, [1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]cyano-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 685570-68-7 CAPLUS
CN Propanoic acid, 3-[1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]-3-cyano-, ethyl ester (9CI) (CA INDEX NAME)

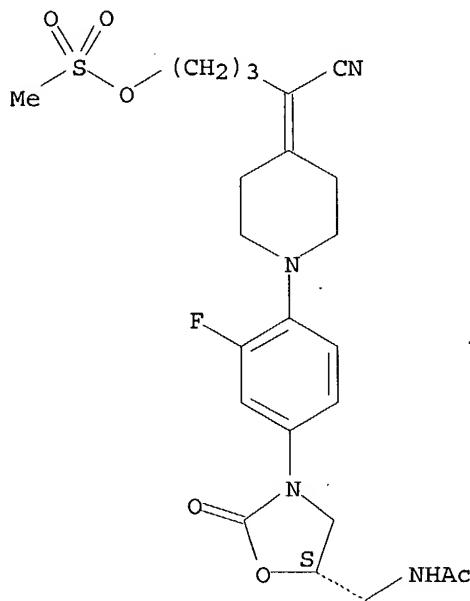
Absolute stereochemistry.



RN 685570-70-1 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-[1-cyano-4-[(methylsulfonyl)oxy]butylidene]-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

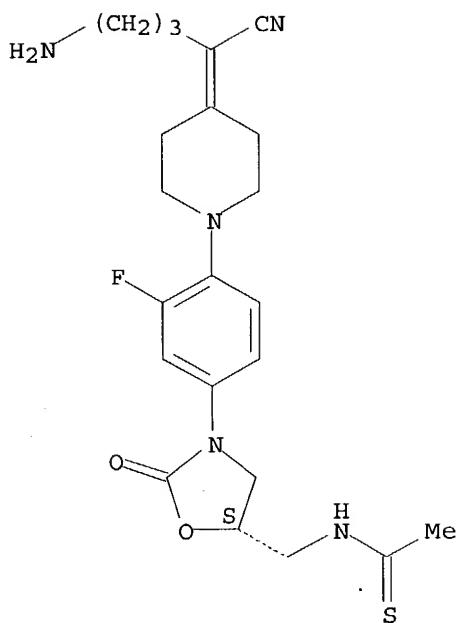
Absolute stereochemistry.



RN 685570-73-4 CAPLUS

CN Ethanethioamide, N-[(5S)-3-[4-[4-(4-amino-1-cyanobutylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

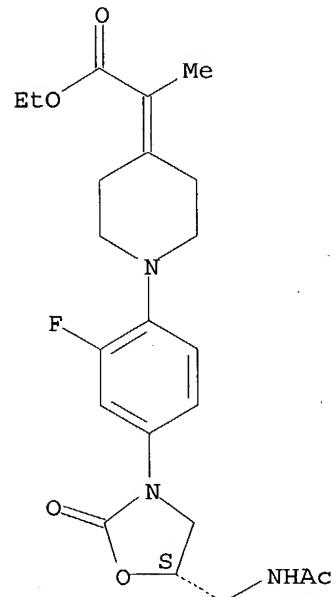
Absolute stereochemistry.



RN 685570-79-0 CAPLUS

CN Propanoic acid, 2-[1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]-, ethyl ester (9CI) (CA INDEX NAME)

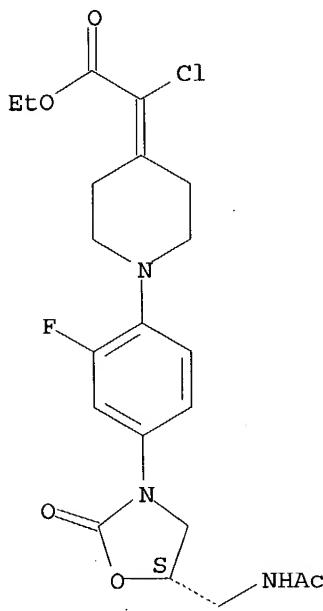
Absolute stereochemistry.



RN 685570-82-5 CAPLUS

CN Acetic acid, [1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]chloro-, ethyl ester (9CI) (CA INDEX NAME)

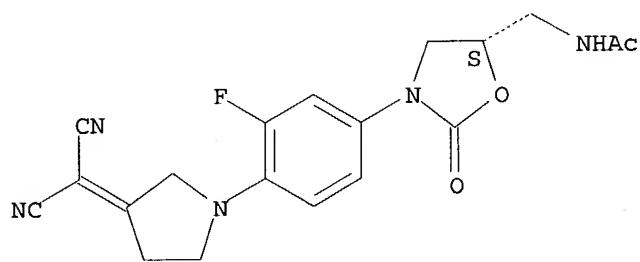
Absolute stereochemistry.



RN 685570-96-1 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[3-(dicyanomethylene)-1-pyrrolidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



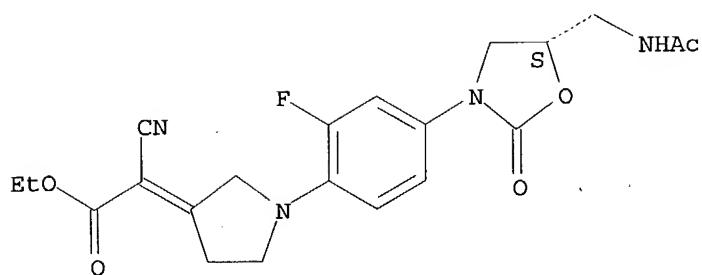
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RN 685570-97-2 CAPLUS

CN Acetic acid, [1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-3-pyrrolidinylidene]cyano-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



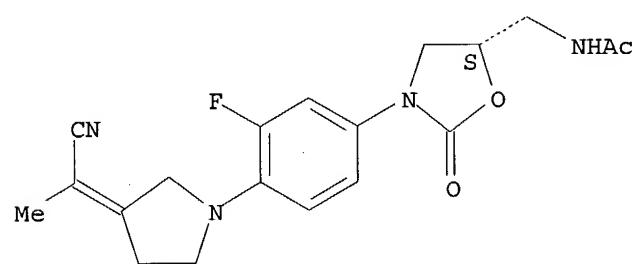
● HCl

RN 685570-99-4 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[3-(1-cyanoethylidene)-1-pyrrolidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

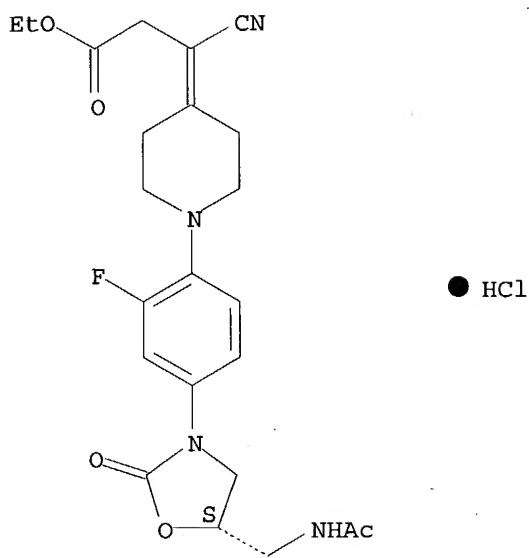


● HCl

RN 685571-00-0 CAPLUS

CN Propanoic acid, 3-[1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]-3-cyano-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

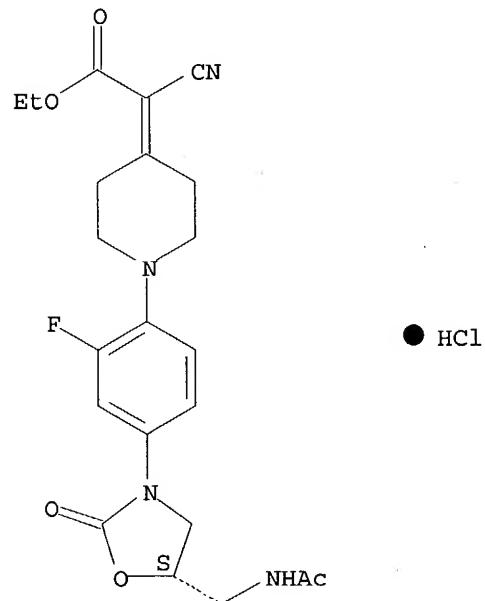
Absolute stereochemistry.



RN 685571-01-1 CAPLUS

CN Acetic acid, [1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]cyano-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

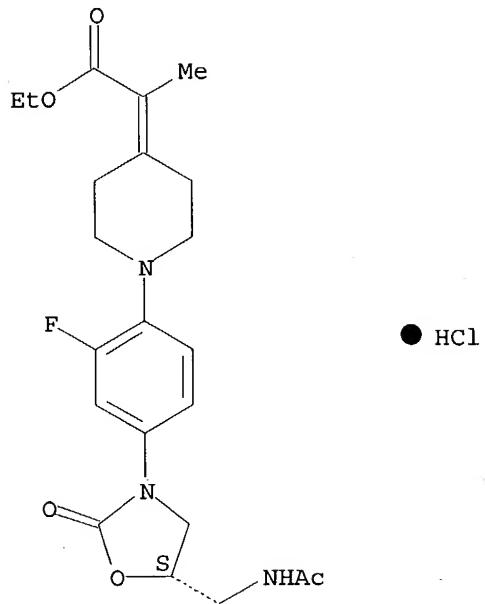
Absolute stereochemistry.



RN 685571-07-7 CAPLUS

CN Propanoic acid, 2-[1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

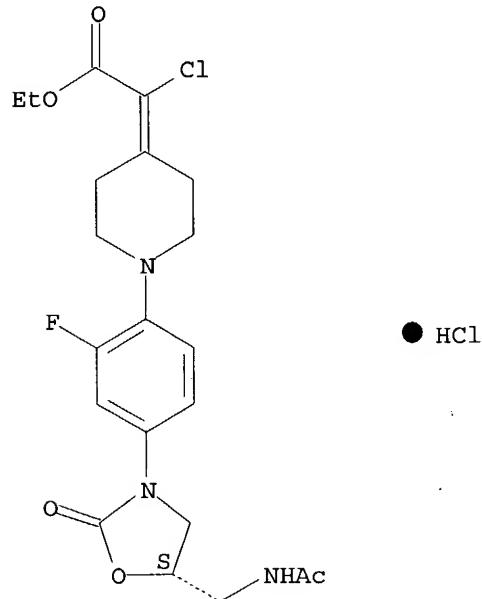
Absolute stereochemistry.



RN 685571-09-9 CAPLUS

CN Acetic acid, [1-[4-[(5S)-5-[(acetyl)amino]methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]chloro-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

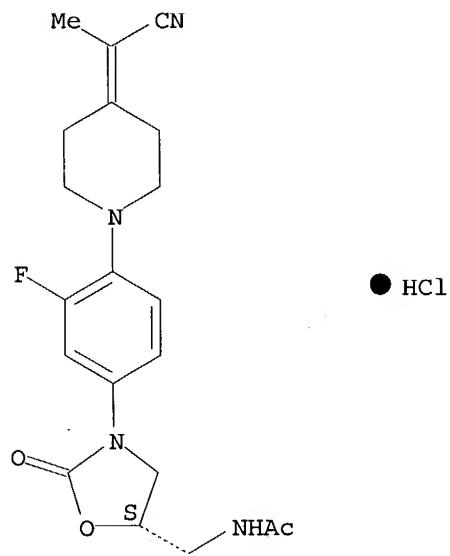
Absolute stereochemistry.



RN 685571-10-2 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(1-cyanoethylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

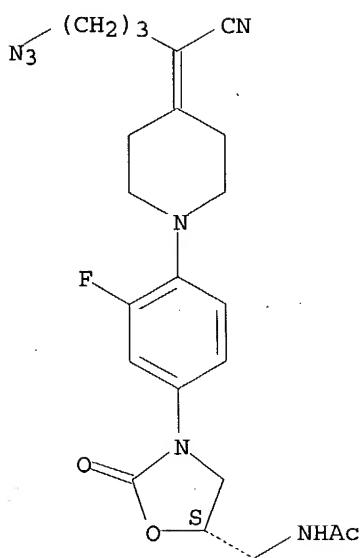


IT 685570-71-2P, N-[(5S)-3-[4-[4-(1-cyano-4-azidobutylidene)piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinylmethyl]acetamide
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (reactant; preparation of 3-[4-(3-methylidenepiperidin-1-yl or 4-methylidenepyrrrolidin-1-yl)phenyl]-2-oxazolidinone derivs. as antimicrobial agents)

RN 685570-71-2 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(4-azido-1-cyanobutylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinylmethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 685570-72-3

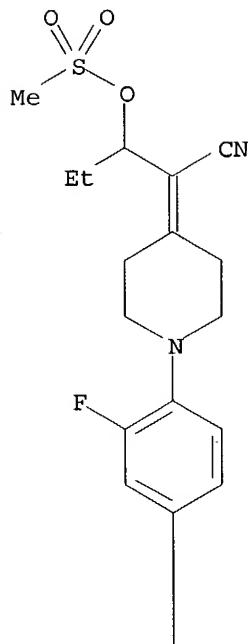
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; preparation of 3-[4-(3-methylidenepiperidin-1-yl or
4-methylidenepyrrrolidin-1-yl)phenyl]-2-oxazolidinone derivs. as
antimicrobial agents)

RN 685570-72-3 CAPLUS

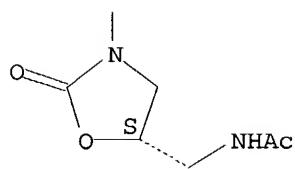
CN Acetamide, N-[(5S)-3-[4-[4-[1-cyano-2-[(methylsulfonyl)oxy]butylidene]-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

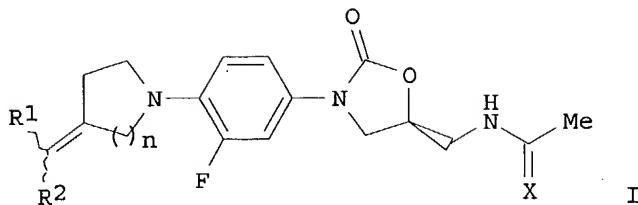
PAGE 1-A



PAGE 2-A



GI



AB 3-[4-(3-Methylideneperidin-1-yl or 4-methylidenepyrrolidin-1-yl)phenyl]-2-oxazolidinone compds. represented by formula (I) or pharmaceutically acceptable salt thereof (R1 and R2 independently represent H, cyano, alkyl, halogen, acetoxy, ethoxycarbonyl, hydroxy, hydroxyimino, methoxyimino, aminoethyl, or a unsatd. 5-membered heterocyclic substituent containing one or more hetero atoms selected from the group consisting of O, N and S; n represents an integer 1 or 2), showing superior antimicrobial

activities against gram-pos. germs including resistant strains such as methicillin-resistant staphylococcus aureus and vancomycin-resistant enterococcus, are prepared. Also disclosed is a preparation method thereof. These compds. showing superior antimicrobial activities against gram-pos. germs including resistant strains such as methicillin-resistant staphylococcus aureus and vancomycin- resistant enterococcus. For example, N-[(5S)-3-[3-fluoro-4-[4-(cyanomethylidene)piperidin-1-yl]phenyl]-2-oxo-5-oxazolidinyl]methyl thioacetamide showed min. inhibitory concentration of 0.5 µg/mL against vancomycin-resistant Staphylococcus pyogenes C6487 vs. 2 and >32 µg/mL for linezolid and vancomycin, resp.

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:60503 CAPLUS

DOCUMENT NUMBER: 140:128407

TITLE: Preparation of (piperidinophenyl)oxazolidinones targeting multiple ribonucleoprotein sites as antibacterial agents

INVENTOR(S): Patel, Mahesh V.; Deshpande, Prasad K.; Sindkhedkar, Milind D.; Gupte, Shrikant V.; Chugh, Yati; Shetty, Nitin; Shukla, Milind C.; Yeole, Ravindra D.; De Souza, Noel J.

PATENT ASSIGNEE(S): India

SOURCE: PCT Int. Appl., 156 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|-----------------|----------|
| WO 2004007489 | A2 | 20040122 | WO 2003-IN238 | 20030710 |
| WO 2004007489 | A3 | 20040318 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |

PRIORITY APPLN. INFO.: US 2002-395164P P 20020711

OTHER SOURCE(S): MARPAT 140:128407

IT 648919-57-7P 648919-72-6P 648919-80-6P

648919-83-9P 648919-85-1P 648919-88-4P

648919-89-5P 648919-90-8P 648919-93-1P

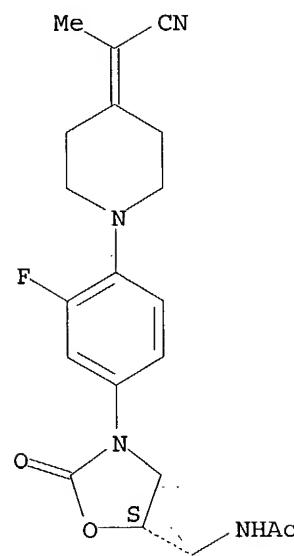
648919-94-2P 648919-95-3P 648919-97-5P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of cyanomethylenepiperidinophenyl oxazolidinones targeting multiple RNA sites as antibacterial agents)

RN 648919-57-7 CAPLUS

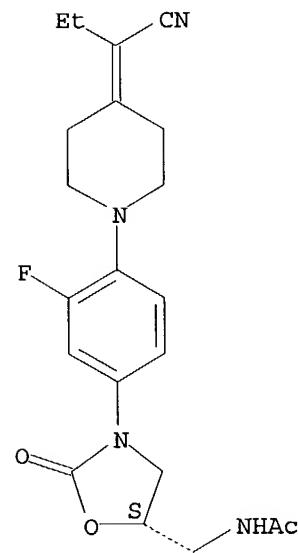
CN Acetamide, N-[(5S)-3-[4-[4-(1-cyanoethylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



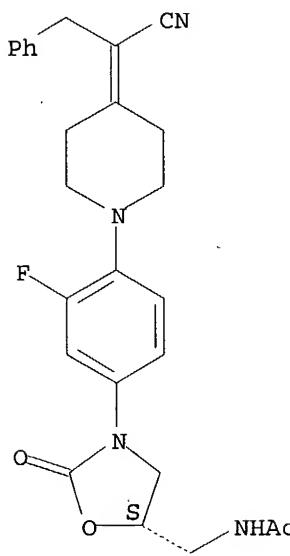
RN 648919-72-6 CAPLUS
CN Acetamide, N-[(5S)-3-[4-[4-(1-cyanopropylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinylmethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 648919-80-6 CAPLUS
CN Acetamide, N-[(5S)-3-[4-[4-(1-cyano-2-phenylethylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinylmethyl]- (9CI) (CA INDEX NAME)

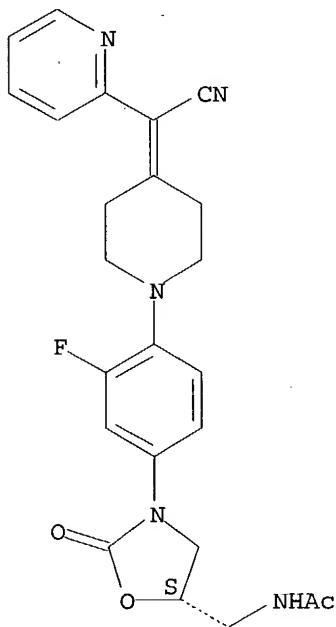
Absolute stereochemistry.



RN 648919-83-9 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(cyano-2-pyridinylmethylene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

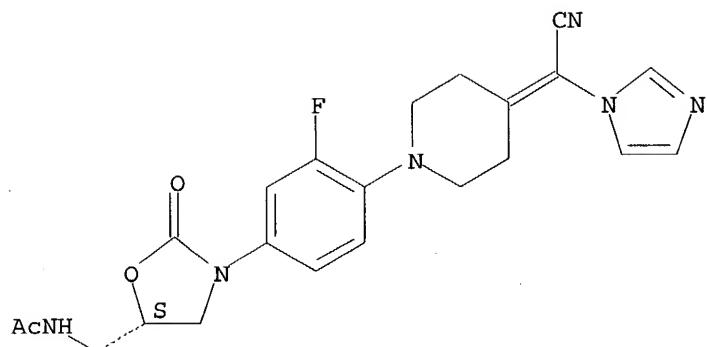
Absolute stereochemistry.



RN 648919-85-1 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(cyano-1H-imidazol-1-ylmethylene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

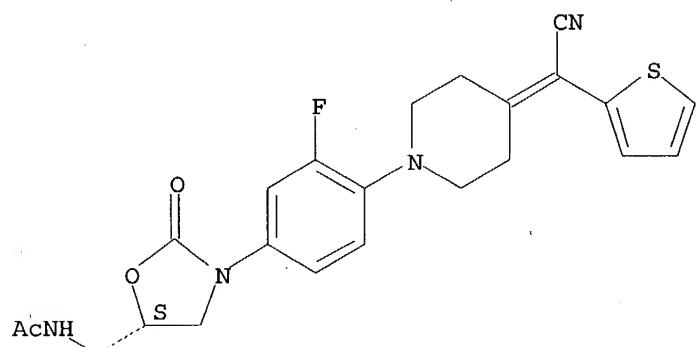
Absolute stereochemistry.



RN 648919-88-4 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(cyano-2-thienylmethylen)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

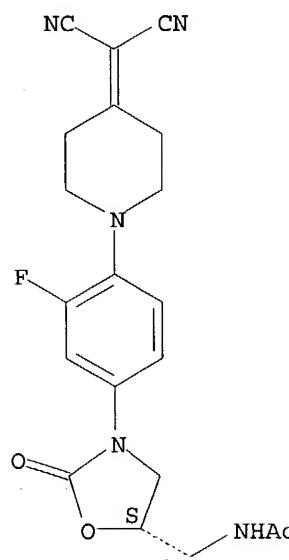
Absolute stereochemistry.



RN 648919-89-5 CAPLUS

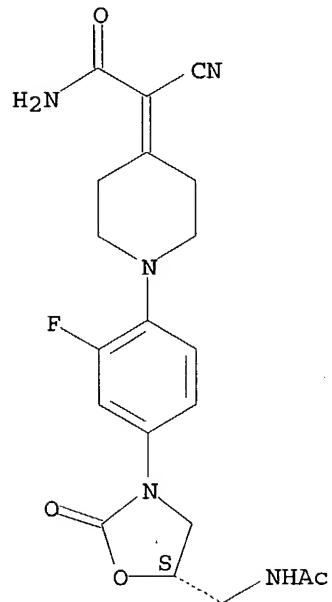
CN Acetamide, N-[(5S)-3-[4-[4-(dicyanomethylene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 648919-90-8 CAPLUS
CN Acetamide, 2-[1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]-2-cyano- (9CI) (CA INDEX NAME)

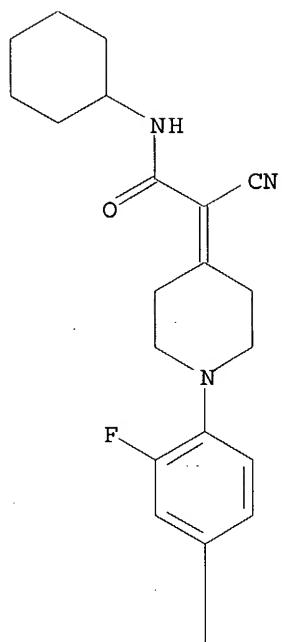
Absolute stereochemistry.



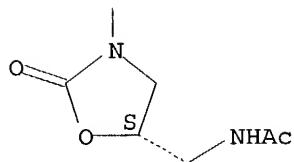
RN 648919-93-1 CAPLUS
CN Acetamide, 2-[1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]-2-cyano-N-cyclohexyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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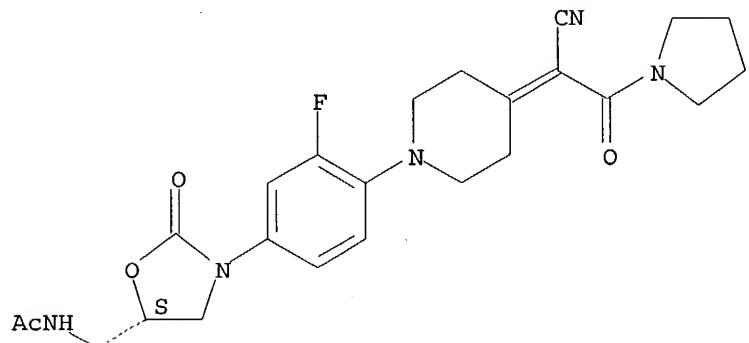
PAGE 2-A



RN 648919-94-2 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-[1-cyano-2-oxo-2-(1-pyrrolidinyl)ethylidene]-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

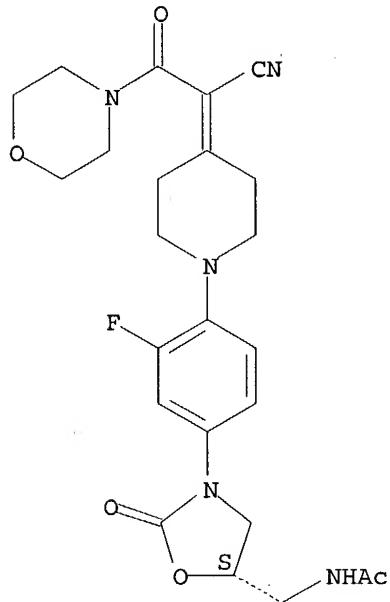
Absolute stereochemistry.



10/694,843

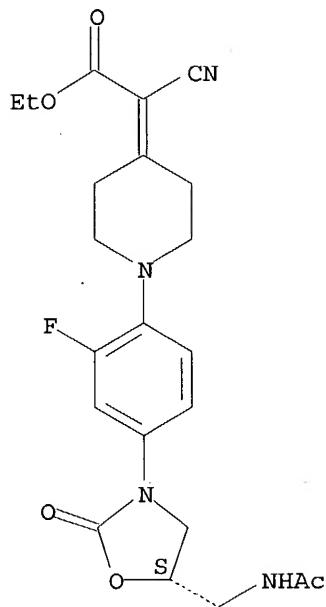
RN 648919-95-3 CAPLUS
CN Acetamide, N-[(5S)-3-[4-[4-[1-cyano-2-(4-morpholinyl)-2-oxoethylidene]-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 648919-97-5 CAPLUS
CN Acetic acid, [1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]cyano-, ethyl ester (9CI) (CA INDEX, NAME)

Absolute stereochemistry.



IT 648919-58-8P 648919-59-9P 648919-60-2P
 648919-61-3P 648919-62-4P 648919-63-5P
 648919-67-9P 648919-68-0P 648919-69-1P
 648919-70-4P 648919-73-7P 648919-74-8P
 648919-75-9P 648919-76-0P 648919-78-2P
 648919-79-3P 648919-84-0P 648919-86-2P
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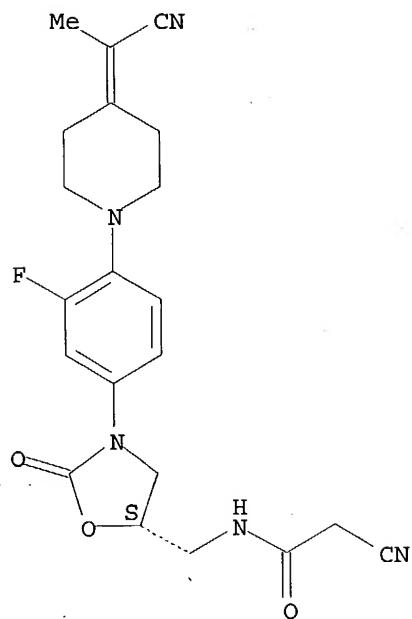
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of cyanomethylenepiperidinophenyl oxazolidinones targeting multiple RNA sites as antibacterial agents)

RN 648919-58-8 CAPLUS

CN Acetamide, 2-cyano-N-[(5S)-3-[4-[4-(1-cyanoethylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

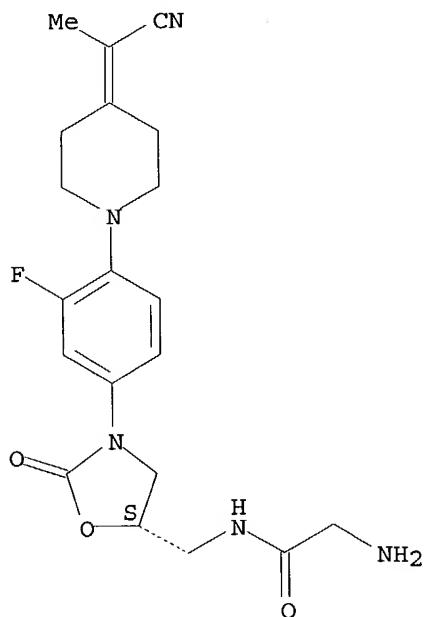
Absolute stereochemistry.



RN 648919-59-9 CAPLUS

CN Acetamide, 2-amino-N-[(5S)-3-[4-[4-(1-cyanoethylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

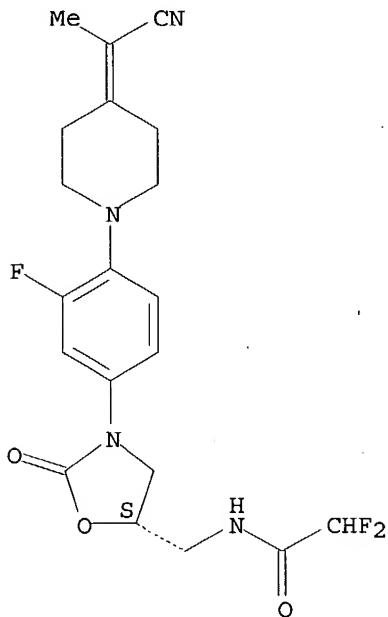


RN 648919-60-2 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(1-cyanoethylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]-2,2-difluoro- (9CI) (CA INDEX NAME)

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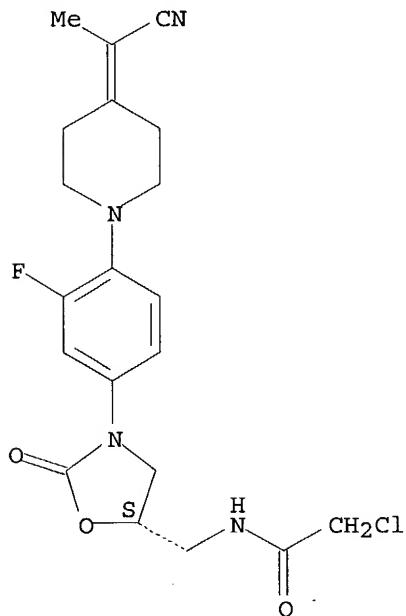
Absolute stereochemistry.



RN 648919-61-3 CAPLUS

CN Acetamide, 2-chloro-N-[(5S)-3-[4-[4-(1-cyanoethylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

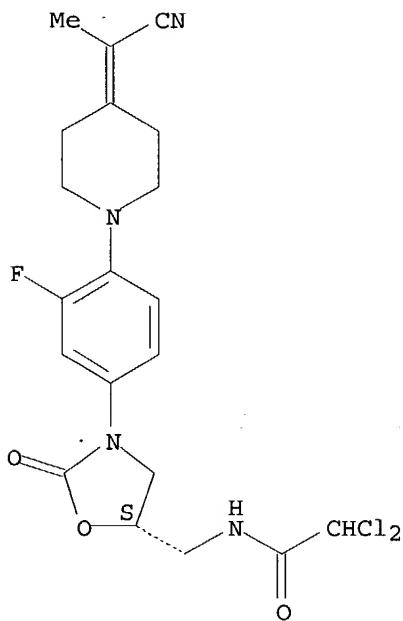


RN 648919-62-4 CAPLUS

CN Acetamide, 2,2-dichloro-N-[(5S)-3-[4-[4-(1-cyanoethylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

10/694, 843

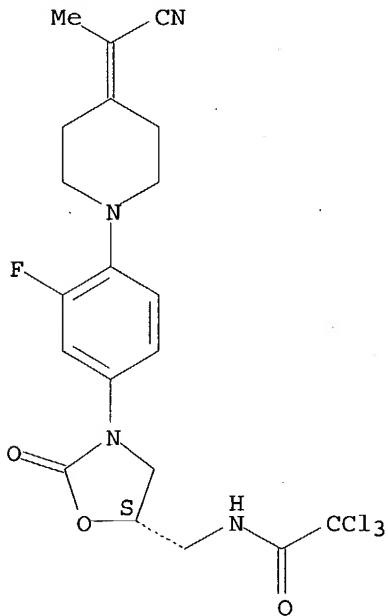
Absolute stereochemistry.



RN 648919-63-5 CAPLUS

CN Acetamide, 2,2,2-trichloro-N-[(5S)-3-[4-[4-(1-cyanoethylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



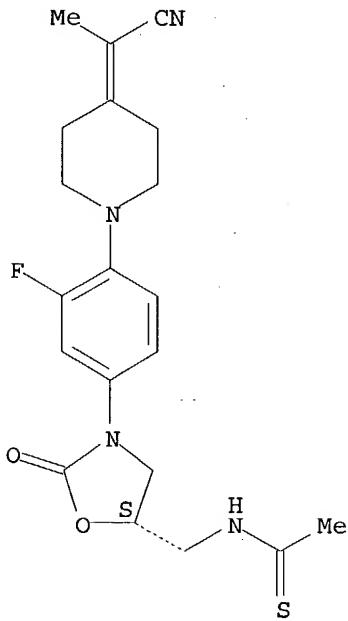
RN 648919-67-9 CAPLUS

CN Ethanethioamide, N-[(5S)-3-[4-[4-(1-cyanoethylidene)-1-piperidinyl]-3-

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fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

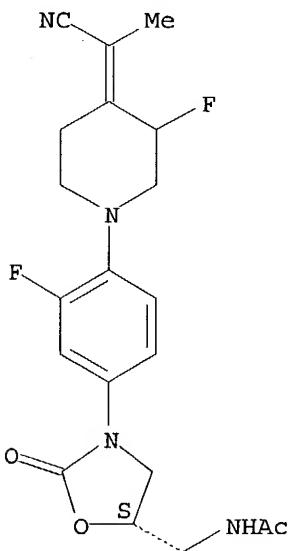


RN 648919-68-0 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(1-cyanoethylidene)-3-fluoro-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



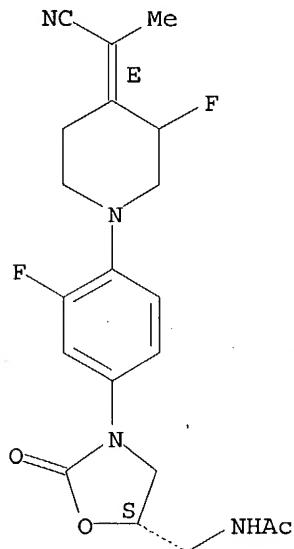
RN 648919-69-1 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(1-cyanoethylidene)-3-fluoro-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

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INDEX NAME)

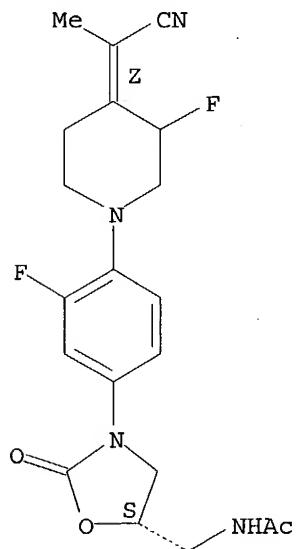
Absolute stereochemistry.
Double bond geometry as shown.



RN 648919-70-4 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[(4Z)-4-(1-cyanoethylidene)-3-fluoro-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA
INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



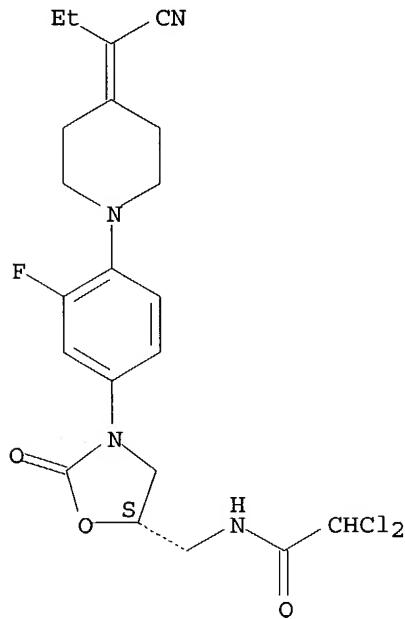
RN 648919-73-7 CAPLUS

CN Acetamide, 2,2-dichloro-N-[(5S)-3-[4-[(1-cyanopropylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA

10/694, 843

INDEX NAME)

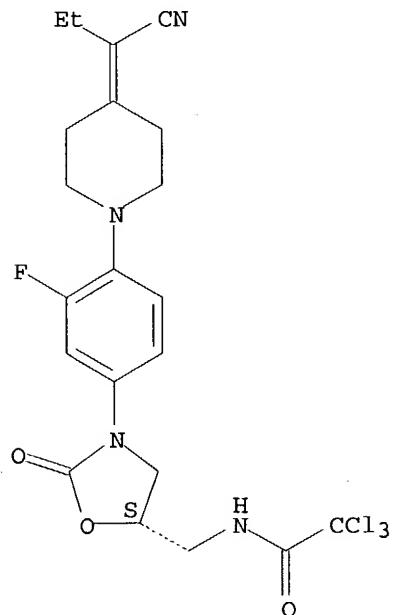
Absolute stereochemistry.



RN 648919-74-8 CAPLUS

CN Acetamide, 2,2,2-trichloro-N-[(5S)-3-[4-[4-(1-cyanopropylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinylmethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

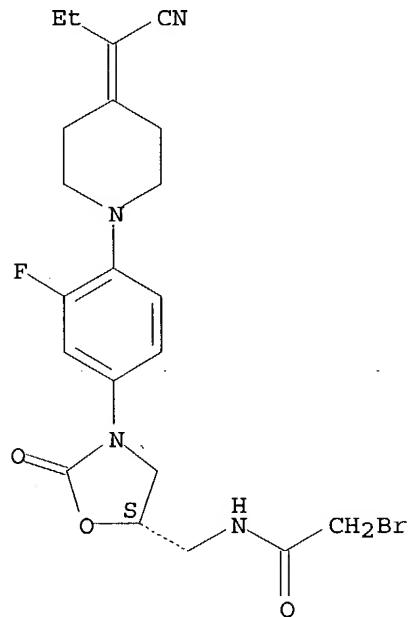


RN 648919-75-9 CAPLUS

10/694,843

CN Acetamide, 2-bromo-N-[(5S)-3-[4-[4-(1-cyanopropylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

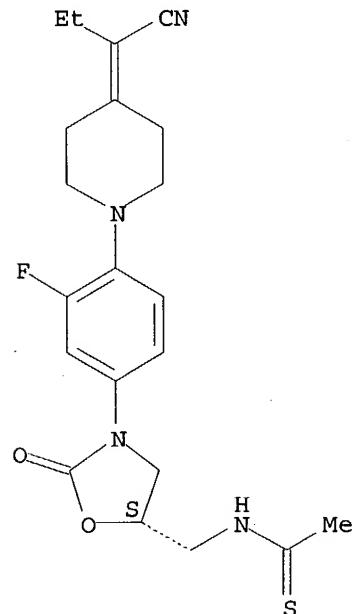
Absolute stereochemistry.



RN 648919-76-0 CAPLUS

CN Ethanethioamide, N-[(5S)-3-[4-[4-(1-cyanopropylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

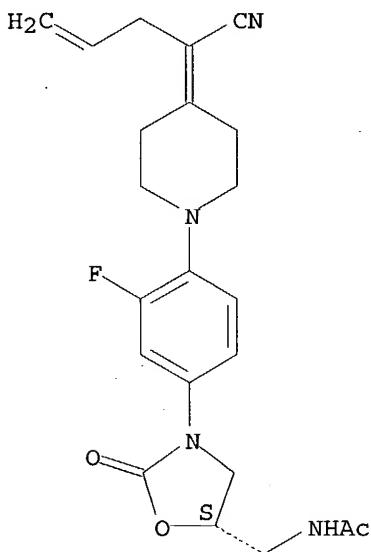


RN 648919-78-2 CAPLUS

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CN Acetamide, N-[(5S)-3-[4-[4-(1-cyano-3-butynylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

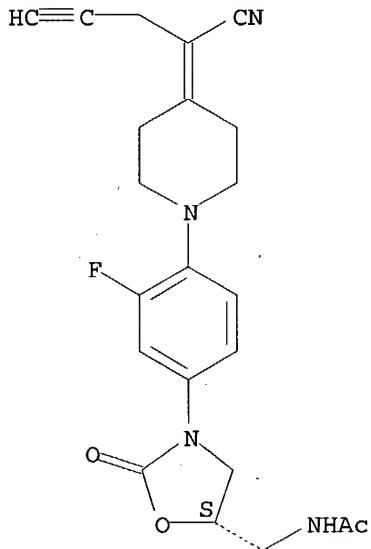
Absolute stereochemistry.



RN 648919-79-3 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(1-cyano-3-butynylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

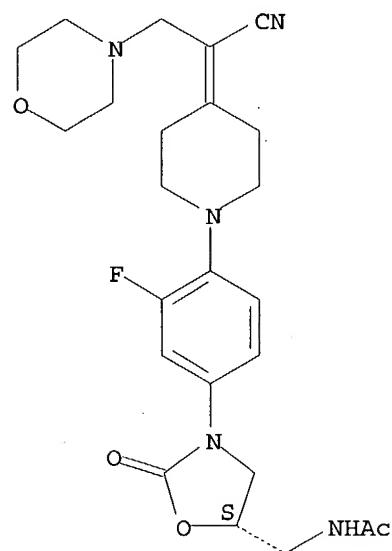


RN 648919-84-0 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-[1-cyano-2-(4-morpholinyl)ethylidene]-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

10/694, 843

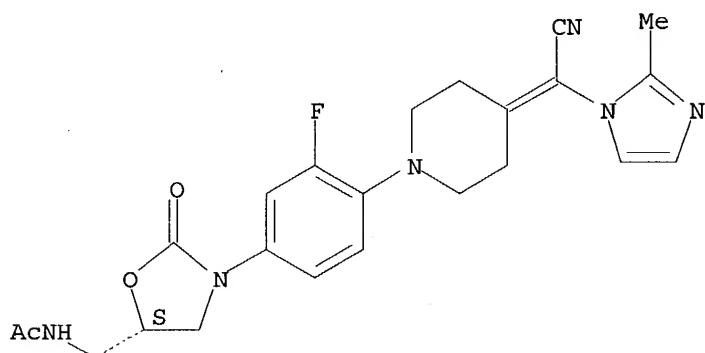
Absolute stereochemistry.



RN 648919-86-2 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-[cyano(2-methyl-1H-imidazol-1-yl)methylene]-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinylmethyl]- (9CI) (CA INDEX NAME)

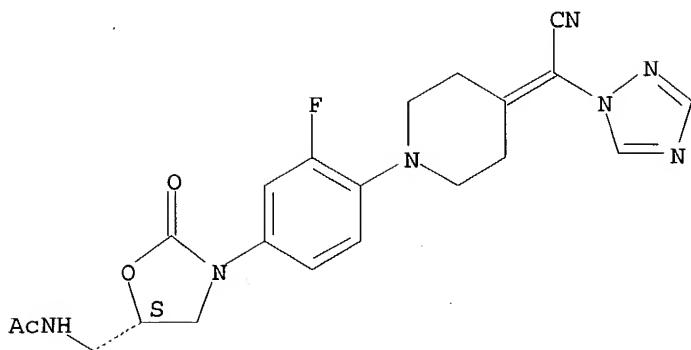
Absolute stereochemistry.



RN 648919-87-3 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(cyano-1H-1,2,4-triazol-1-ylmethylene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinylmethyl]- (9CI) (CA INDEX NAME)

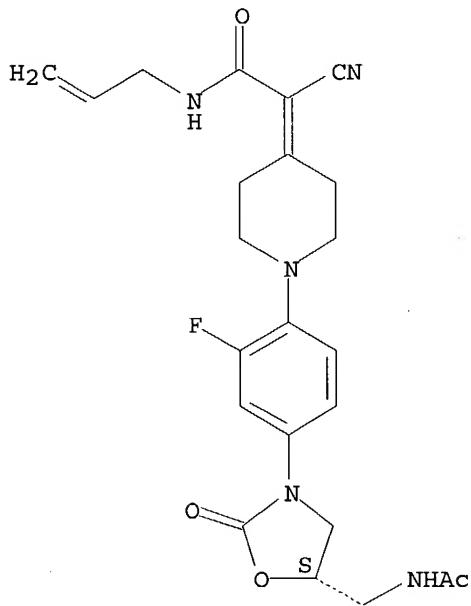
Absolute stereochemistry.



RN 648919-91-9 CAPLUS

CN Acetamide, 2-[1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]-2-cyano-N-2-propenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

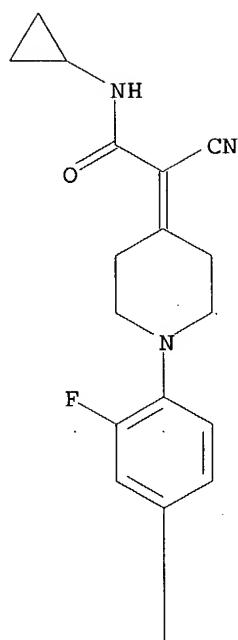


RN 648919-92-0 CAPLUS

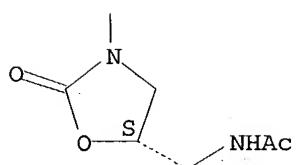
CN Acetamide, 2-[1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]-2-cyano-N-cyclopropyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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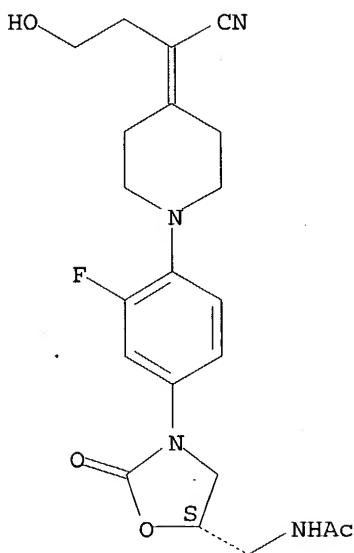
PAGE 2-A



RN 648919-96-4 CAPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(1-cyano-3-hydroxypropylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

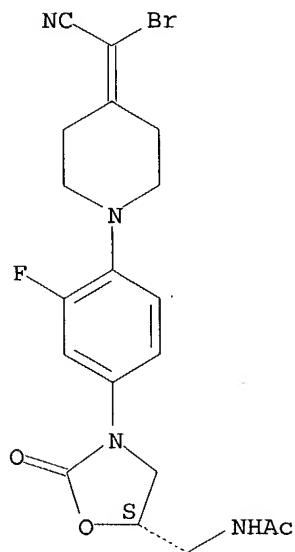
Absolute stereochemistry.



RN 648920-00-7 CAPLUS

CN Acetamide, N-[[(5S)-3-[4-[4-(bromocyanomethylene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

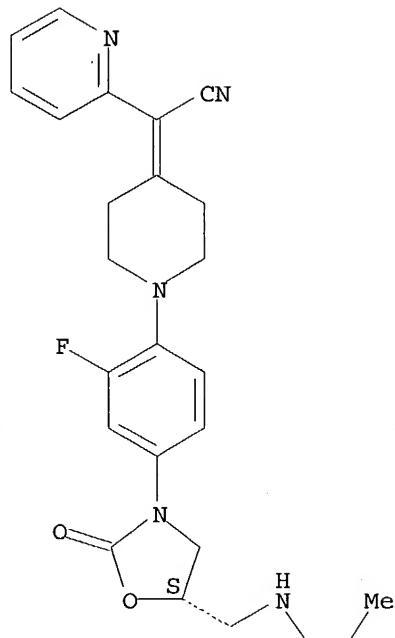


RN 648920-01-8 CAPLUS

CN Ethanethioamide, N-[[(5S)-3-[4-[4-(cyano-2-pyridinylmethylen)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



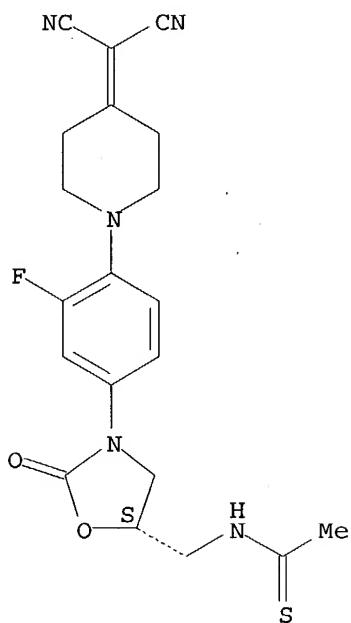
PAGE 2-A



RN 648920-02-9 CAPLUS

CN Ethanethioamide, N-[(5S)-3-[4-[4-(dicyanomethylene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

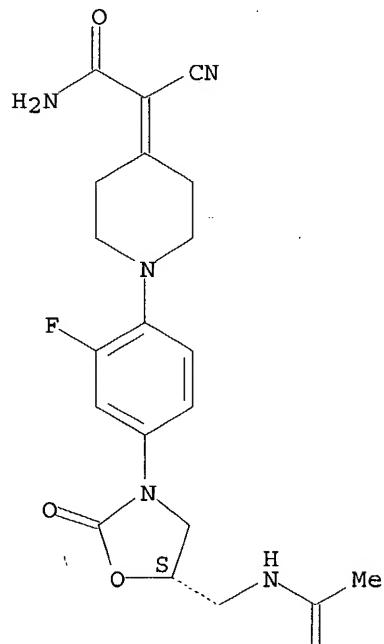


RN 648920-03-0 CAPLUS

CN Acetamide, 2-cyano-2-[1-[2-fluoro-4-[(5S)-2-oxo-5-[(1-thioxoethyl)amino]methyl]-3-oxazolidinyl]phenyl]-4-piperidinylidene]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

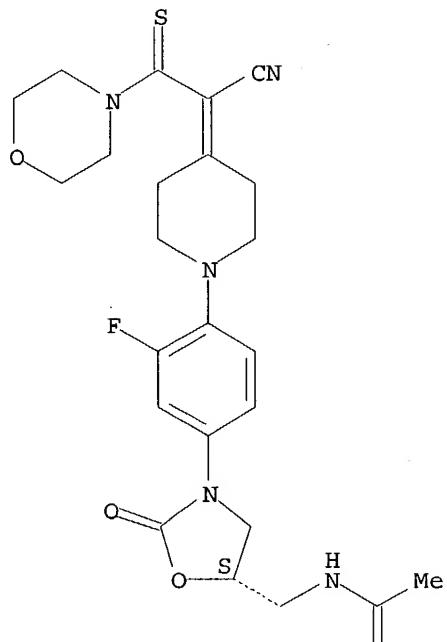
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S

RN 648920-04-1 CAPLUS

CN Ethanethioamide, N-[(5S)-3-[4-[4-[1-cyano-2-(4-morpholinyl)-2-thioxoethylidene]-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

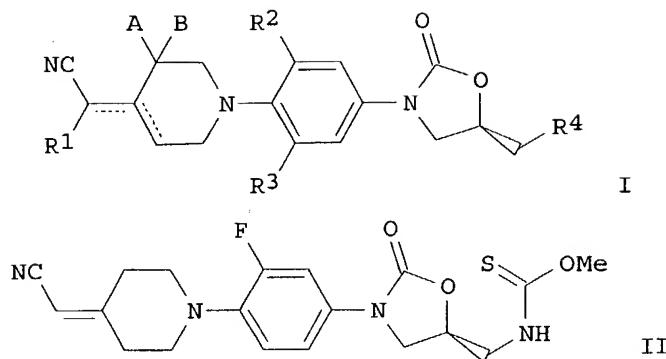
PAGE 1-A



PAGE 2-A

||
S

GI



AB Title compds. I [wherein R1 = H, (un)substituted (cyclo)alkyl, (un)substituted alkanoyl, arylmercapto, heterocyclithiocarbonyl, etc.; R2, R3 = H, halogen; R4 = alkylsulfonyloxy, (un)substituted alkylthiocarbonylamino, (un)substituted ureido, carbamato, etc.; A, B = independently selected from H, alkyl, CO₂Et, halogen; and salts or solvates thereof] were prepared as antibacterial agents. For example, reaction of (S)-N-[3-[4-(4-cyanomethylidene)piperidin-1-yl]-3-fluorophenyl]-2-oxooxazolidin-5-ylmethyamine with carbon disulfide (69%), followed by addition of sodium methoxide, gave II in 77% yield. II showed 1.56-6.25 µg/mL (MIC) against linezolid resistant strains; such as *S. aureus* MRSA-32, *S. pneumoniae* SPN744 and *E. faecium* 367, 0.2 µg/mL (MIC) against linezolid sensitive strains, such as *S. aureus* MRSA-32 and *S. pneumoniae* 49619, 1.56 (MPC) for the treatment of *E. faecalis* 416 infection, and etc. 3D quant. structure activity relationship (3D-QSAR) showed that the steric contributions of I are over one and half times more than the electrostatic contributions, compared to literature compds. Thus, I and their pharmaceutical compds. targeting multiple ribonucleoprotein sites are useful as antimicrobial agents for treating bacterial infections.

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2004:60502 CAPLUS
 DOCUMENT NUMBER: 140:128406
 TITLE: Preparation of (piperidinophenyl)oxazolidinones as antimicrobial agents with improved pharmacokinetic profile and safety advantages
 INVENTOR(S): Chugh, Yati; Shetty, Nitin; Deshpande, Prasad K.; Sindkhedkar, Milind D.; Jafri, Mohammad A.; Yeole, Ravindra D.; Shukla, Milind C.; Gupte, Shrikant V.; Patel, Mahesh V.; De Souza, Noel J.
 PATENT ASSIGNEE(S): India
 SOURCE: PCT Int. Appl., 44 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|----------|
| WO 2004007488 | A2 | 20040122 | WO 2003-IN237 | 20030710 |
| WO 2004007488 | A3 | 20040318 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
 PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004063954 A1 20040401 US 2003-616888 20030710
 US 2004235900 A1 20041125 US 2003-475735 20031023

PRIORITY APPLN. INFO.: US 2002-395164P P 20020711
 IN 2003-MU392 A 20030421
 WO 2003-IN237 W 20030710

OTHER SOURCE(S): CASREACT 140:128406; MARPAT 140:128406

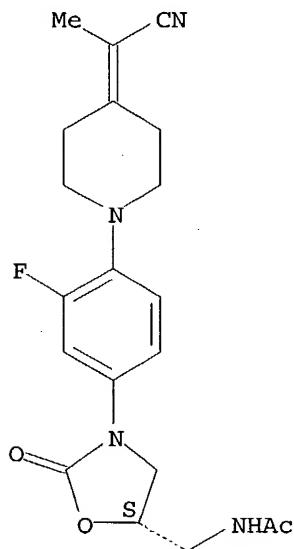
IT 648919-57-7 648919-72-6 648919-89-5
 653597-37-6 653597-38-7 653597-47-8

RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of (cyanoalkylpiperidinophenyl)oxazolidinones as antimicrobial
 agents with improved pharmacokinetic profile and safety advantages)

RN 648919-57-7 CAPPLUS

CN Acetamide, N-[(5S)-3-[4-[4-(1-cyanoethylidene)-1-piperidinyl]-3-
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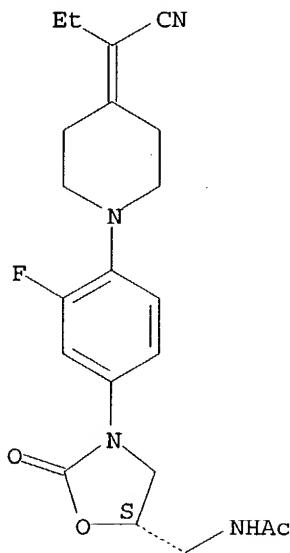
Absolute stereochemistry.



RN 648919-72-6 CAPPLUS

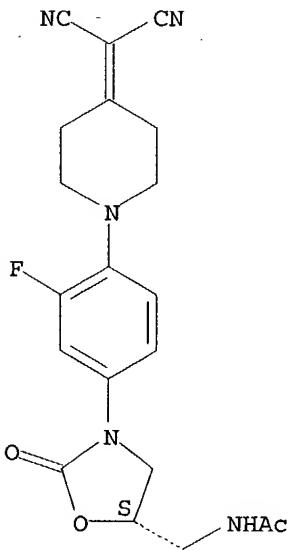
CN Acetamide, N-[(5S)-3-[4-[4-(1-cyanopropylidene)-1-piperidinyl]-3-
 fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



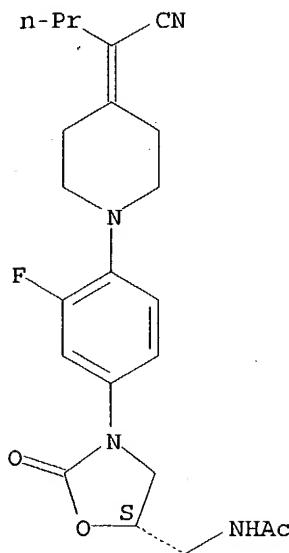
RN 648919-89-5 CAPLUS
CN Acetamide, N-[(5S)-3-[4-[4-(dicyanomethylene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinylmethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



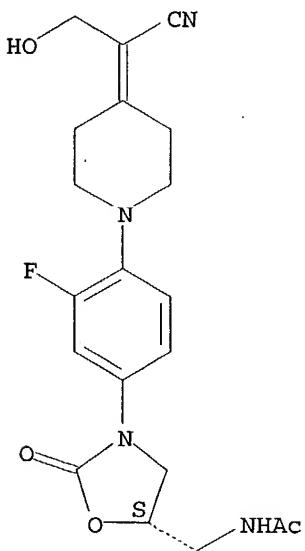
RN 653597-37-6 CAPLUS
CN Acetamide, N-[(5S)-3-[4-[4-(1-cyanobutylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinylmethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



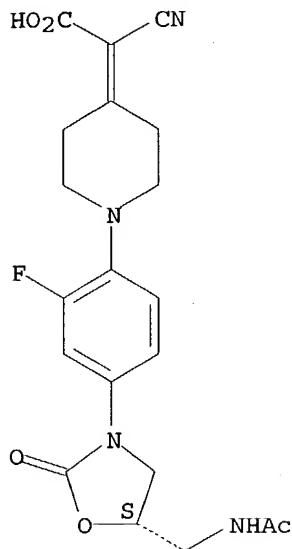
RN 653597-38-7 CAPLUS
CN Acetamide, N-[(5S)-3-[4-[4-(1-cyano-2-hydroxyethylidene)-1-piperidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinylmethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

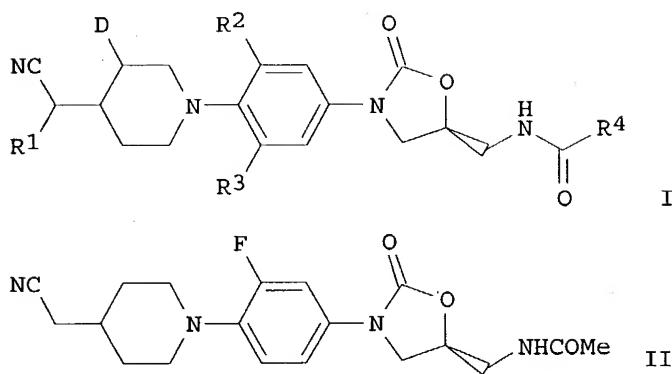


RN 653597-47-8 CAPLUS
CN Acetic acid, [1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-4-piperidinylidene]cyano- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



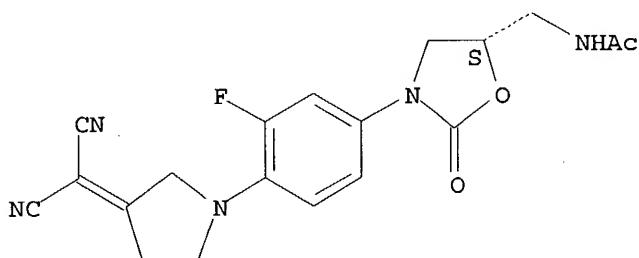
GI



AB Title compds. I-A [wherein R1 = H, (un)substituted alkyl, CO₂H, CN; R2, R3 = H, F; R4 = (un)substituted alkyl, alkoxy; D = H, alkyl, F; A = absent or a complex forming agent, organic base, amino acid] were prepared as antimicrobial agents. For example, reduction of N-[(S)-3-[4-(4-cyanomethylidene)piperidin-1-yl]-3-fluorophenyl]-2-oxooxazolidin-5-yl]methyl]acetamide with 10% Pd/C afforded II in 89% yield. II showed 1.0-2.0 µg/mL (MIC) against *S. aureus* MRSA-32, *E. faecalis* ATCC 29212 and *S. pneumoniae* ATCC 49619, good pharmacokinetic values, such as a higher 12-h blood level and a longer half-life than the control, and no toxicity. Thus, I and their pharmaceutical compds. have an improved pharmacokinetic profile and no toxicity in use as antimicrobial agents for preventing and treating bacterial infections in once-a-day doses.

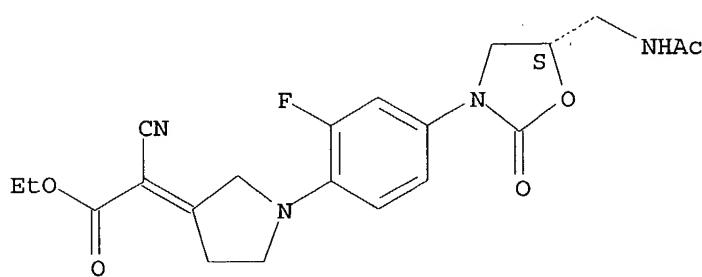
DOCUMENT NUMBER: 139:245931
 TITLE: Synthesis and in vitro activity of new methylenepiperidinyl and methylenepyrrolidinyl oxazolidinone antibacterial agents
 AUTHOR(S): Kim, Hye Yeon; Lee, Jae Seok; Cha, Joo Hwan; Pae, Ae Nim; Cho, Yong Seo; Chang, Moon Ho; Koh, Hun Yeong
 CORPORATE SOURCE: Biochemicals Research Center, Korea Institute of Science and Technology, Cheongryang, Seoul, 130-650, S. Korea
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2003), 13 (13), 2227-2230
 CODEN: BMCL8; ISSN: 0960-894X
 PUBLISHER: Elsevier Science B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 139:245931
 IT 596136-10-6P 596136-11-7P 596136-13-9P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (synthesis and in vitro activity of [(methyleneperidinyl) or (methylenepyrrolidinyl)fluorophenyl]oxazolidinone antibacterial agents)
 RN 596136-10-6 CAPLUS
 CN Acetamide, N-[(5S)-3-[4-[3-(dicyanomethylene)-1-pyrrolidinyl]-3-fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 596136-11-7 CAPLUS
 CN Acetic acid, [1-[4-[(5S)-5-[(acetylamino)methyl]-2-oxo-3-oxazolidinyl]-2-fluorophenyl]-3-pyrrolidinylidene]cyano-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.



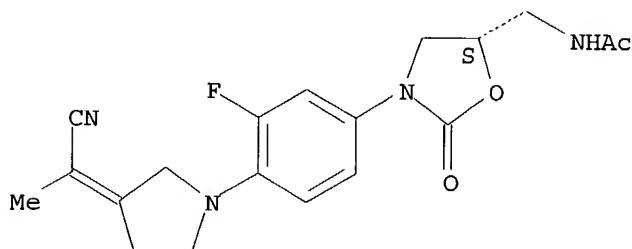
RN 596136-13-9 CAPLUS
 CN Acetamide, N-[(5S)-3-[4-[3-(1-cyanoethylidene)-1-pyrrolidinyl]-3-

10/694,843

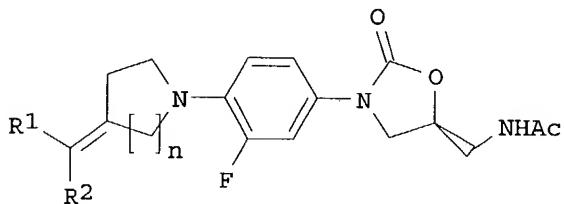
fluorophenyl]-2-oxo-5-oxazolidinyl]methyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.



GI



I

AB A series of substituted methylenepiperidinyl and methylenepyrrolidinyl oxazolidinones I ($R^1 = H, Me, CN; R^2 = CN, CO_2Et, COMe, CHO, \text{etc.}$) have been prepared and evaluated for antibacterial activity against several gram-pos. strains, including the resistant strains of *Staphylococcus* and *Enterococcus*, such as MRSA, CRSA, MSSA and VRE. Some of them showed comparable or superior in vitro activities (MIC) to vancomycin.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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